

Abstract

Semi-conductor component with lattice-mismatched semi-conductor materials

Semi-conductor component in which a first semi-conductor material with a first lattice constant is combined with a second semi-conductor material with a second lattice constant within one and the same semi-conductor body, and the first and second lattice constants are different. The first semi-conductor material (1) forms a matrix (4) in at least a portion of its area in which a number of sub-monolayer islands (5) containing the second semi-conductor material (2) are embedded.

(Figure 1)